

## CLAIMS

1. A lithium ion secondary battery comprising: a positive electrode including a positive electrode active material comprising a lithium-containing composite oxide, a conductive material and a binder; a negative electrode; and a non-aqueous electrolyte, wherein said lithium-containing composite oxide is represented by the chemical formula:



where M is at least one element selected from the group consisting of Na and K, and the values a, b, c, x, y and z respectively satisfy  $0 \leq a \leq 1.05$ ,  $0.005 \leq x \leq 0.15$ ,  $0.0001 \leq y \leq 0.01$ ,  $0.0002 \leq z \leq 0.008$ ,  $0.85 \leq b \leq 1.1$  and  $1.8 \leq c \leq 2.1$ .

2. The lithium ion secondary battery in accordance with claim 1, wherein said binder comprises polyvinylidene fluoride having a mean molecular weight of 150000 to 350000.